

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: DAVID GUZO Examiner #: 70677 Date: 2/25/05  
 Art Unit: 1636 Phone Number 302-272-0767 Serial Number: 10/613106  
 Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please run a regular plus interference sequence search on SEQ ID NO: 1 and 4.

1-MA-986

CRFE

4-MA-2144

Thanks

MEJ

Arnold 22532  
 3/7/05 - 3/9/05

\*\*\*\*\*  
 STAFF USE ONLY

Type of Search

Vendors and cost where applicable

Searcher:

NA Sequence (4)

STN

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GenCore Version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: March 8, 2005, 13:21:02 ; Search time 4143.41 Seconds  
(without alignments)

1530.816 Million cell updates/sec

Title: US-10-613-106-1

Perfect score: 986

Sequence: 1 atgagacatattatctggcca.....gtaaacggccaggccataa 986

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenBmbl: \*

1: gb\_ba:\*

2: gb\_btg:\*

3: gb\_lrn:\*

4: gb\_on:\*

5: gb\_ov:\*

6: gb\_dat:\*

7: gb\_ph:\*

8: gb\_Pl:\*

9: gb\_Pri:\*

10: gb\_ro:\*

11: gb\_sts:\*

12: gb\_xy:\*

13: gb\_un:\*

14: gb\_vir:\*

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

ALIGNMENTS

Database : GenBmbl: \*

1: gb\_ba:\*

2: gb\_btg:\*

3: gb\_lrn:\*

4: gb\_on:\*

5: gb\_ov:\*

6: gb\_dat:\*

7: gb\_ph:\*

8: gb\_Pl:\*

9: gb\_Pri:\*

10: gb\_ro:\*

11: gb\_sts:\*

12: gb\_xy:\*

13: gb\_un:\*

14: gb\_vir:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULT 1

AR016484 AR016484 AR016484 Sequence 1 from patent US 5776743. DNA linear PAT 05-DEC-1998

LOCUS AR016484 DEFINITION Sequence 1 from patent US 5776743. DNA linear PAT 05-DEC-1998

ACCESSION AR016484 VERSION AR016484.1 GI:3972761

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 1000)

AUTHORS Frisch,S.M.

JOURNAL Title: US 5776743-A, 10-JUL-1998;

FEATURES Method of sensitizing tumor cells with adenovirus E1A

PATENT Location/Qualifiers

1. .1000

/organism="unknown"

ORIGIN

Query Match 100.0%; Score 986; DB 6; Length 1000; Best Local Similarity 100.0%; Prod. No. 1e-263; 0; Mismatches 986; Conservativity 0; Indels 0; Gaps 0;

AR016484 Sequence

AR016485 Sequence

AR031949 Sequence

AR031950 Sequence

AR031951 Sequence 1

120734 Sequence 1

120735 Sequence 3

AR304631 Sequence

AR304632 Sequence

AY147066 Human ade

AX817767 Sequence

AX88364 Sequence

AX770195 Sequence

AR310582 Sequence

AX152623 Sequence

BD26237 Adenovirus

BD26208 Adenovirus

AX356041 Sequence

BD202190 Packaging

X02996 Adenovirus

SD268211 Adenovirus

AX356044 Sequence

BD021943 Packaging

CQ854903 Sequence

CQ854905 Sequence

CQ854906 Sequence

AQ084506 Sequence

AQ084507 Sequence

AY33865 Human ade

AR091533 Sequence

AR10226 Sequence

AB16113 Sequence

CQ854907 Sequence

AQ230724 Sequence

AX451988 Sequence

AJ683770 Sequence

M73260 Mastadenovi

AR403723 Sequence

AY490818 Human ade

I12051 Sequence 1

I38383 Sequence 1

I4335 Sequence 1

I61413 Sequence 1

I62262 Sequence 1

I9027 Sequence 1

AX770200 Sequence

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Qy	301 CAGCCGAGAGAGAGAGAGCTTGGTCGGTTCTATGCCAACCTTGACCGGGGTGATC 360	Qy 1 ATGAGACATATTCTGCCACCGAGGTATTACCGAGAATGGCGCCAGTCCTTG 60
Db	310 CAGCCGAGAGAGAGAGCTTGGTCGGTTCTATGCCAACCTTGACCGGGGTGATC 369	Db 10 ATGAGACATATTCTGCCACCGAGGTATTACCGAGAATGGCGCCAGTCCTTG 69
Qy	361 GATCTTACCTGCACTGGCTTCCACCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 420	Qy 61 GACCACTGATCAGAGGACTCTGGCTGATACTTCACCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 420
Db	370 GATCTTACCTGCACTGGCTTCCACCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 429	Db 70 GACCACTGATCAGAGGACTCTGGCTGATACTTCACCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 429
Qy	421 GAGTTGTGTTAGATATGGAGACCCGGGACGGATATTGGTGGCTTGCTATGAGGACCTGTGAC 480	Qy 121 CCTACCTTCACTGAGCTATGTTAGATGAGCTGAGGAGCTTGGCTTCTATGCCAACCTTGAC 480
Db	430 GAGTTGTGTTAGATATGGAGACCCGGGACGGATATTGGTGGCTTGCTATGAGGACCTGTGAC 489	Db 130 CCTACCTTCACTGAGCTATGTTAGATGAGCTGAGGAGCTTGGCTTCTATGCCAACCTTGAC 489
Qy	481 CGGAGGAATACGGGACCCGAGATATTGGTGGCTTGCTATGAGGACCTGTGAC 540	Qy 181 CGCGTTCCAGATTTCGGCTCTGTAATGTTGCGTCAGGAGGATGACTTA 240
Db	490 CGGAGGAATACGGGACCCGAGATATTGGTGGCTTGCTATGAGGACCTGTGAC 549	Db 190 CGCGTTCCAGATTTCGGCTCTGTAATGTTGCGTCAGGAGGATGACTTA 249
Qy	541 ATGTTGTGTTAGTGTGAAATTATGGGCACTGGGTGATAGTGCTGTTGGTG 600	Qy 241 CTCACTTTGGCGCCCGGGTTCTGGGAGCCAGACCGGGCTGCA 300
Db	550 ATGTTGTGTTAGTGTGAAATTATGGGCACTGGGTGATAGTGCTGTTGGTG 609	Db 250 CTCACTTTGGCGCCCGGGTTCTGGGAGCCAGACCGGGCTGCA 309
Qy	601 TGTATATTTTTAAATTATGGTGGCTTGCTTAAAGAAATTGTGATT 650	Qy 301 CGCGGGACAGAGCTTCCGACTCTGTAATGTTGGGAGGTGATC 360
Db	610 TGTATATTTTTAAATTATGGTGGCTTGCTTAAAGAAATTGTGATT 659	Db 310 CAGCGGAGAGGCTTGGGCGGCTTCTGGGAGCCAGACCGGGCTGCA 369
Qy	661 TTTAAGAGTCCTGTCCTGAACTGAGCTGAGCCGAGACCGGGCTGCA 720	Qy 361 GATCTTACCTGCACTGGCTTCCACCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 420
Db	670 TTTAAGAGTCCTGTCCTGAACTGAGCTGAGCCGAGACCGGGCTGCA 729	Db 430 GAGTTGTGTTAGTGTGAAATTATGGGAGCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 429
Qy	721 GACCTTACCCGGCTCTAAATGGGCTCTGAACTGAGCTGAGCCGAGACCGGGCTGCA 780	Qy 370 GATCTTACCTGCACTGGCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 429
Db	730 GACCTTACCCGGCTCTAAATGGGCTCTGAACTGAGCTGAGCCGAGACCGGGCTGCA 789	Db 421 GAGTTGTGTTAGTGTGAAATTATGGGAGCCCGGGCACGGTGGCTGTCATATGCCAACCTTGAC 480
Qy	781 CTAGACATGATGATGAGCTGAGCTGAGCCGAGACCGGGCTGCA 840	Qy 430 GAGTTGTGTTAGTGTGAAATTATGGGAGCCCGGGCACGGTGGCTGTCATATGCCAACCTTGAC 489
Db	790 CTAGACATGATGAGCTGAGCTGAGCCGAGACCGGGCTGCA 849	Db 481 CGGAGGAATACGGGAGCCGAGCTTGGCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 540
Qy	841 AGATACACCGGGTGGCCCGTGTGACCTGAGCTGAGCTGAGCCGAGACCGGGCTGCA 900	Db 490 CGGAGGAATACGGGGACCGAGCTTGGCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 549
Db	850 AGATACACCGGGTGGCCCGTGTGACCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 909	Qy 541 ATGTTGTGTTAGTGTGAAATTATGGGAGCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 480
Qy	901 GTGCGCAGGCTGGGAGCTGAGGAGCTGCTAACGACCTGGGCAACCTTGGACT 960	Db 550 ATGTTGTGTTAGTGTGAAATTATGGGAGCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 489
Db	910 GTGCGCAGGCTGGGAGCTGAGGAGCTGCTAACGACCTGGGCAACCTTGGACT 969	Qy 601 TGTATATTTTTAAATTATGGTGGCTTGCTTAAACGAGCTGGGCAACCTTGGACT 720
Qy	961 TGAAGCTTAAGGCCCAAGGCCATAA 986	Db 670 TTTAAGAGTCCTGAGGAGCTGAGCCGAGACCGGGCTGCA 729
Db	970 TGAAGCTTAAGGCCCAAGGCCATAA 995	Qy 721 GACCTTACCCGGCTCTAAATGGGCTCTGAACTGAGCTGAGCCGAGACCGGGCTGCA 780

RESULT 2	AR016485 AR016485 1000 bp DNA linear PAT 05-DEC-1-1998	Matches 986; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
LOCUS	Sequence 3 from patent US 5776743.	Qy 1 ATGAGACATATTCTGCCACCGAGGTATTACCGAGAATGGCGCCAGTCCTTG 60
DEFINITION		Db 10 ATGAGACATATTCTGCCACCGAGGTATTACCGAGAATGGCGCCAGTCCTTG 69
ACCESSION	AR016485 AR016485.1 GI:3972762	Qy 61 GACCACTGATCAGAGGACTCTGGCTGATACTTCACCTGAG 120
KEYWORDS		Db 70 GACCACTGATCAGAGGACTCTGGCTGATACTTCACCTGAG 129
SOURCE	Unknown.	Qy 121 CCTACCTTCACTGAGCTATGTTAGATGAGCTGAGGAGCTTGGCTTCTATGCCAACCTTGAC 120
ORGANISM	Unclassified.	Db 130 CCTACCTTCACTGAGCTATGTTAGATGAGCTGAGGAGCTTGGCTTCTATGCCAACCTTGAC 129
REFERENCE	1 (bases 1 to 1000)	Qy 181 CGCGTTCCAGATTTCGGCTCTGTAATGTTGCGTCAGGAGGATGACTTA 240
AUTHORS	Frisch, S.M.	Db 190 CGCGTTCCAGATTTCGGCTCTGTAATGTTGCGTCAGGAGGATGACTTA 249
TITLE	Method of sensitizing tumor cells with adenovirus E1A	Qy 241 CTCACTTTGGCGCCCGGGTTCTGGGAGCCAGCTTGGACT 60
JOURNAL	Patent: US 5776743-A 3 07-JUN-1998;	Db 250 CTCACTTTGGCGCCCGGGTTCTGGGAGCCAGCTTGGACT 69
FEATURES	Location/Qualifiers	Qy 301 CGCGGGACAGAGCTTCCGACTCTGTAATGTTGGGAGGTGATC 360
source	1. 1000 /organism="unknown" /mol-type="unassigned DNA"	Db 310 CAGCGGAGAGGCTTGGGCGGCTTCTGGGAGCCAGCTTGGACT 369
ORIGIN		Qy 361 GATCTTACCTGCACTGGCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 420
Query Match	100.0%; Score 986; DB 6; Length 1000;	Db 430 GAGTTGTGTTAGTGTGAAATTATGGGAGCTGAGGAGCTTGGTCGGTTCTATGCCAACCTTGAC 429
Best Local Similarity	100.0%; Fred. No. 1e-263;	Qy 481 CGGAGGAATACGGGACCCGAGATATTGGTGGCTTGCTATGAGGACCTGTGAC 540
RESULT 3	AR031949	Db 490 CGGAGGAATACGGGACCCGAGATATTGGTGGCTTGCTATGAGGACCTGTGAC 549

Locus AR031949 Sequence 1 from patent US 5866550. Definition 1000 bp DNA. Linear. PAT 29-SEP-1999

Definition AR031949.1 GI:5946238

Accession AR031949

Version AR031949.1

Keywords

Source Unknown. Organism Unassigned.

Reference 1 (bases 1 to 1000)

Authors Frisch, S.M.

Title Method of inhibiting replication of hyperproliferative cells using a nucleic acid encoding EIA

Journal Patent: US 5866550-A 1 02-FEB-1999;

Features Location/Qualifiers

Source 1. -1000 /organism="unknown" /mol\_type="unassigned DNA"

Origin

Query Match 100.0%; Score 986; DB 6; Length 1000; Best Local Similarity 100.0%; Pred. No. 1e-263; Matches 986; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 ATGAGACATATTATCGCCACGGAGGTGTTATTACCGAAGAAATGCCGCCAGCTTGC 60

Db 10 ATGAGACATATTATCGCCACGGAGGTGTTATTACCGAAGAAATGCCGCCAGCTTGC 69

Qy 61 GACCACTGATCGAGAGGACTGGCTGATTCCTCCACCTCCAGCCATTGACCA 120

Db 70 GACCACTGATCGAGAGGACTGGCTGATTCCTCCACCTCCAGCCATTGACCA 129

Qy 121 OCTACCTTCGCGAAGCTGTGATGATTAGCTGAGCCGGCCCGAAGATCCACGGAG 180

Db 130 OCTACCTTCGCGAAGCTGTGATGATTAGCTGAGCCGGCCCGAAGATCCACGGAG 189

Qy 181 CGGGTTTCGCGAAGTTTCGCGACTCTGTGATGTTAGCTGAGCCGGCGAAGAGGTGACTA 240

Db 190 GGGGTTTCGCGAAGTTTCGCGACTCTGTGATGTTAGCTGAGCCGGCGAAGAGGTGACTA 249

Db 241 CTCACTTTGCGCGCGCGCGCGTTCTCGCGAGCGCCCTACCTTCCCGCAGCGAG 300

Db 250 CTCACTTTGCGCGCGCGCGTTCTCGCGAGCGCCCTACCTTCCCGCAGCGAG 309

Qy 301 GAGCCGAGCGAGACGCCCTGGCTATGCCAACCTGTACGGAGGTGATC 360

Db 310 GAGCCGAGCGAGACGCCCTGGCTATGCCAACCTGTACGGAGGTGATC 369

Qy 361 GATCTTACCTTCACCGAGGCTGGCTTCCACCCAGTGGACGGAGGTGAG 420

Db 370 GATCTTACCTTCACCGAGGCTGGACGGAGGTGAG 429

Qy 421 GAGTTGTTGTTAGATTGAGCTGGAGACCCGGCAGGGTGAGCTCTGATATCAC 480

Db 430 GAGTTGTTGTTAGATTGAGCTGGAGACCCGGCAGGGTGAGCTCTGATATCAC 489

Qy 481 CGGAGGATACGGGACCCGATATTATGTTGCTTCTGATAGGACCTGTGG 540

Db 490 CGGAGGATACGGGACCCGATATTATGTTGCTTCTGATAGGACCTGTGG 549

Qy 541 ATGTTGTCAGTGAATTAATGCGCAGTGGTGTAGTGTGGTTGGTGG 600

Db 550 ATGTTGTCAGTGAATTAATGCGCAGTGGTGTAGTGTGGTTGGTGG 609

Qy 601 TGTGTAATTTTTAAATTTCAGTTGTTGTTAAGAATTGTTGTTGGATT 660

Db 610 TGTGTAATTTTTAAATTTCAGTTGTTGTTGAAGAATTGTTGTTGGATT 669

Qy 661 TTAAAGGTTCTGCTGCTAACCTGAGCTGACGCCGAGCCGAGCTGCAA 720

Db 670 TTAAAGGTTCTGCTGCTAACCTGAGCTGACGCCGAGCCGAGCTGCAA 729

Qy 721 GACCTTCGCGCTCTAAATGCCCTGATCTGAGCGCCGAGCTACCTGTG 780

Origin

Result 4 AR031950 Sequence 3 from patent US 5866550. Definition 1000 bp DNA. Linear. PAT 29-SEP-1999

Definition AR031950.1 GI:5946239

Accession AR031950

Version AR031950.1

Keywords

Source Unknown. Organism Unassigned.

Reference 1 (bases 1 to 1000)

Authors Frisch, S.M.

Title Method of inhibiting replication of hyperproliferative cells using a nucleic acid encoding EIA

Journal Patent: US 5866550-A 3 02-FEB-1999;

Features Location/Qualifiers

Source 1. -1000 /organism="unknown" /mol\_type="unassigned DNA"

Origin

Query Match 100.0%; Score 986; DB 6; Length 1000; Best Local Similarity 100.0%; Pred. No. 1e-263; Matches 986; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 ATGAGACATATTATCGCCACGGAGGTGTTATTACCGAAGAAATGCCGCCAGCTTGC 60

Db 10 ATGAGACATATTATCGCCACGGAGGTGTTATTACCGAAGAAATGCCGCCAGCTTGC 69

Qy 61 GACCACTGATCGAGAGGACTGGCTGATTCCTCCACCTCCAGCCATTGACCA 120

Db 70 GACCACTGATCGAGAGGACTGGCTGATTCCTCCACCTCCAGCCATTGACCA 129

Qy 121 CCTACCTTCGCGACTGTGATGTTAGCTGAGCTGGCCCGAGATCCACGGAG 180

Db 130 CCTACCTTCGCGACTGTGATGTTAGCTGAGCTGGCCCGAGATCCACGGAG 189

Qy 181 GGGGTTTCGCGAGATTTCGCGACTGTGATGTTAGCTGAGCTGGCCCGAGATCCACGGAG 240

Db 190 GGGGTTTCGCGAGATTTCGCGACTGTGATGTTAGCTGAGCTGGCCCGAGATCCACGGAG 249

Qy 241 CTCACTTTGCGCGCGCGCGTTCTCGCGAGCGCCCTACCTTCTAGCCATTGACCA 300

Db 250 CTCACTTTGCGCGCGCGCGTTCTCGCGAGCGCCCTACCTTCTAGCCATTGACCA 309

Qy 301 GAGCCGAGCGAGACGCCCTGGCTATGCCAACCTGTACGGAGGTGATC 360

Db 310 GAGCCGAGCGAGACGCCCTGGCTATGCCAACCTGTACGGAGGTGATC 369

Qy 361 GATCTTACCTTCACCGAGGCTGGCTTCCACCCAGTGGACGGAGGTGAG 420

Db 370 GATCTTACCTTCACCGAGGCTGGACGGAGGTGAG 429

Qy 421 GAGTTGTTGTTAGATTGAGCTGGAGACCCGGCAGGGTGAGCTCTGATATCAC 480

Db	430	GGTTTGTGTTAGATATGTCGACACCCGGCACCGTGGAGCTTGTAC	489	Db	130	CCTACCTTCGAGACTGTTGTTAGTGGTGGAGGCCCCGAGATCCAGGGAG	189
Qy	481	CGAGGAGATACCGGGGAGCCAACTATTATGTTGTTGCTCTTGATGACCACTGTC	540	Qy	181	GGGTTTCGCGAGATTTTCGAGCTCTGTATGTTGGCGCTGGTCAAGAAAGGGATGACTA	240
Db	490	CGAGGAGATACCGGGGAGCCAACTATTATGTTGTTGCTCTTGATGACCACTGTC	549	Db	190	GGGTTTCGCGAGATTTTCGAGCTCTGTATGTTGGCGCTGGTCAAGAAAGGGATGACTA	249
Qy	541	ATGTTGCTAGTAGTGTAAATTAGTGCGAGTGTAGTGTGGGGTTGG	600	Qy	241	CTCACATTGCGCGCGCGCGCGCTTCGGAGGGCCCTACCTTCCGGAGACCCGAG	300
Db	550	ATGTTGCTAGTAGTGTAAATTAGTGCGAGTGTAGTGTGGGGTTGG	609	Db	250	CTCACATTGCGCGCGCGCTTCGGAGGGCCCTACCTTCCGGAGACCCGAG	309
Qy	601	TGTTAAAGGTTTTTAAATTACAGTTTGTTGGTTAAAGAATTGTTGTTGAAATT	660	Qy	301	CAGCCGAGAGAGGCTTGTGTTGTTGTTGTTGTTGAAATTGTTGAAATT	360
Db	610	TGTTAAAGGTTTTTAAATTACAGTTTGTTGGTTAAAGAATTGTTGTTGAAATT	669	Db	310	CAGCCGAGAGAGGCTTGTGTTGTTGTTGTTGAAATTGTTGAAATT	369
Qy	661	TTTAAAGGTCCTGTTGTTGTTGTTGTTGTTGTTGAAATTGTTGAAATT	720	Qy	361	GATCTTACGCGCGCGCGCTTCGGAGGGCCACATCCTGTTGAAATT	420
Db	670	TTTAAAGGTCCTGTTGTTGTTGTTGTTGTTGAAATTGTTGAAATT	729	Db	370	GATCTTACGCGCGCGCTTCGGAGGGCCACATCCTGTTGAAATT	429
Qy	721	GCCTTACCCGGGTCCTTAAATGGCGCTGTTGTTGTTGAAATTGTTGAAATT	780	Qy	421	GAGTTGTTAGATTATGTTGAGACCCGGGAGCGGTTGAGCTTGTGG	480
Db	730	GCCTTACCCGGGTCCTTAAATGGCGCTGTTGTTGAAATTGTTGAAATT	789	Db	430	GAGTTGTTAGATTATGTTGAGACCCGGGAGCGGTTGAGCTTGTGG	489
Qy	781	CTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGAAATTGTTGAAATT	840	Qy	481	CAGCCGAGAGAGGCTTGTGTTGTTGTTGTTGTTGAAATTGTTGAAATT	540
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Qy	841	AGATACACCCGGTGTCCCGTGTGCCCCATTAAACAGTGTGGTGGGG	900	Qy	541	ATGTTGCTACAGTAGTGTGGTAAATTGTTGAGCTTGTGGTGGGG	600
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Qy	901	GTGCGCAGGCTGTGAAATTGTTGAGCTTCTTAAGAAGCTTGTGGGG	960	Qy	601	TGTTAAATTTTTTAAATTGTTACAGTTGTGGTGGTTAGAATTGTTGAGTT	660
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Db	970	TGAGCTTAAGGCCCGGCCATAA	995	Db	670	TTTAAAGGTTCTGTTGAACTTGACCTGAGCTTGACCCGAGCCAGACCTTGTGAA	729
<b>RESULT 5</b>							
LOCUS	120734	120734	1000 bp	DNA	1	linear	PAT 07-OCT-1996
DEFINITION	Sequence 1 from patent US 5516631.						
ACCESSION	120734	120734.1					
VERSION	GI:1601089						
KEYWORDS							
SOURCE							
ORGANISM	Unknown.						
REFERENCE	Unclassified.						
AUTHORS	1 (bases 1 to 1000)						
TITLE	Frisch,S.M.						
JOURNAL	Method of inhibiting replication of hyperproliferative cells						
FEATURES	Patent: US 5516631-A 11-14-MAY-1996;						
Source	Location/Qualifiers						
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	/organism="unknown"						
	/mol_type="unassigned DNA"						
<b>ORIGIN</b>							
Query Match	100.0%	Score: 986;	DB: 6;	Length: 1000;			
Best Local Similarity	100.0%	Score: 100.	DB: 6;	Length: 1000;			
Matches	986;	Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;	
Qy	1	ATGAGACATATCTGCCACCGAGGTATGGCTGAAATGGCGCGCTTGT	60	Db	130	CCTACCTTCGAGACTGTTGTTAGTGGTGGAGGCCCCGAGATCCAGGGAG	189
Db	10	ATGAGACATATCTGCCACCGAGGTATGGCTGAAATGGCGCGCTTGT	69	Qy	181	GGGTTTCGCGAGATTTTCGAGCTCTGTATGTTGGCGCTGGTCAAGAAAGGGATGACTA	240
Qy	61	GGCCAGCTGATGAGAGGTATGGCTGAAATGGCGCGCTTGT	120	Db	190	GGGTTTCGCGAGATTTTCGAGCTCTGTATGTTGGCGCTGGTCAAGAAAGGGATGACTA	249
Db	70	GGCCAGCTGATGAGAGGTATGGCTGAAATGGCGCGCTTGT	129	Qy	241	CTCACATTGCGCGCGCGCTTCGGAGGGCCCTACCTTCCGGAGACCCGAG	300
Qy	121	CTTACCTTCGAGACTGTTGTTAGCTGAGCTGAGCCCGAGATCCCACAGGAG	180	Db	250	CTCACATTGCGCGCGCTTCGGAGGGCCCTACCTTCCGGAGACCCGAG	309
<b>RESULT 6</b>							
LOCUS	120735	120735	1000 bp	DNA	1	linear	PAT 07-OCT-1996
DEFINITION	Sequence 3 from patent US 5516631.						
ACCESSION	120735	120735.1					
VERSION	GI:1601090						
KEYWORDS	Unknown.						
ORGANISM	Unknown.						
REFERENCE	Unclassified.						
AUTHORS	Frisch,S.M.						
TITLE	Method of inhibiting replication of hyperproliferative cells						

JOURNAL	Patent:	US 5516631-A 3 14-MAY-1995;
FEATURES	Location/Qualifiers	
source	1. .0000 /organism="unknown" /mol_type="unassigned DNA"	
ORIGIN		
Query Match	100.0%; Score 986; DB 6; Length 1000;	
Best Local Similarity	100.0%; Pred. No. 1e-263;	
Matches	986; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 ATGAGACATATATCTGCACGGAGTTACCGAAGAATGGCCGAGTCCTTG 60	
Db	10 ATGAGACATATATCTGCACGGAGTTACCGAAGAATGGCCGAGTCCTTG 69	
QY	61 GACCAAGCTGATCGAGAGGTTACCGTATACTTCCACCTCTAGCCATTGACCA 120	
Db	70 GACCAAGCTGATCGAGAGGTTACCGTATACTTCCACCTCTAGCCATTGACCA 129	
QY	121 CTCACCCCTCAAGACTGATGTTAGCTGAGGAGCTTACCGAAGAATGGCCGAGTCCTTG 69	
Db	130 CTCACCCCTCAAGACTGATGTTAGCTGAGGAGCTTACCGAAGAATGGCCGAGTCCTTG 189	
QY	181 GCGGTTTCCGAGATTTCGCGACTCTGATGTTGGGGTGGAGGGATTGACTA 240	
Db	190 GCGGTTTCCGAGATTTCGCGACTCTGATGTTGGGGTGGAGGGATTGACTA 249	
QY	241 CTCACCTTTCGCGCGCGCGGGTTCTCGGAGCGCGCTCACTTTCGGCGCCCG 300	
Db	250 CTCACCTTTCGCGCGCGCGGGTTCTCGGAGCGCGCTCACTTTCGGCGCCCG 309	
QY	301 CASCAGGAGGAGAGAGCTGCGCGGTTCTAGCCAACTTGTACCGAGGTGATC 360	
Db	310 CAGCGGAGGAGAGAGCTGCGCGGTTCTAGCCAACTTGTACCGAGGTGATC 369	
QY	361 GACCCATCTGCGAGAGGTTGGCTTCACCCAGTGGAGGAGGAGGGTCA 420	
Db	370 GATCCTACCTGCGAGAGGTTGGCTTCACCCAGTGGAGGAGGAGGGTCA 429	
QY	421 GAGTTGTTGTTAGATTGAGGACCCGGGACCGGTGAGGTGAGGTTGGTCA 480	
Db	430 GAGTTGTTGTTAGATTGAGGACCCGGGACCGGTGAGGTGAGGTTGGTCA 489	
QY	481 CGGAGGAATGGGGGACCCAGTGGCTGAGGAGGTGAGGAGGGATGACTA 540	
Db	490 CGGAGGAATGGGGGACCCAGTGGCTGAGGAGGTGAGGAGGGATGACTA 519	
QY	541 ATGTTGTCATACTGAAATATGGCACTGGGTTAGTGGTCA 560	
Db	550 ATGTTGTCATACTGAAATATGGCACTGGGTTAGTGGTCA 609	
QY	601 TGGTAAATTTTAAATTTCAGTTGTGTTAAAGATTGTTATGTTGATT 660	
Db	610 TGGTAAATTTTAAATTTCAGTTGTGTTAAAGATTGTTATGTTGATT 669	
QY	661 TTAAAGCTCTGTCGAACCTGAGCCGAGAAGGGAGCTGCA 720	
Db	670 TTAAAGCTCTGTCGAACCTGAGCCGAGAAGGGAGCTGCA 729	
QY	721 GACCTACCCCGCTCTAAATGGCGCTCTATCTGAGAAGCCGAGATCACCTGTT 780	
Db	730 GACCTACCCCGCTCTAAATGGCGCTCTATCTGAGAAGCCGAGATCACCTGTT 789	
QY	781 CTAGAAATGCAATGAGTGTGAGCTCCGTCCTCTAACACCTCTG 840	
Db	790 CTAGAAATGCAATGAGTGTGAGCTCCGTCCTCTAACACCTCTG 849	
QY	841 AGATACACCGGTGTCCTAAATGAGCTGAGGAGCTTACCGAGCTGGACTTGGACT 900	
Db	850 AGATACACCGGTGTCCTAAATGAGCTGAGGAGCTTACCGAGCTGGACTTGGACT 909	
QY	901 GTGCGCAGGCTGTTGAGATGAGCTGGAGACTTGGACTTGGACTTGGACT 960	
Db	910 GTGCCAGGCTGTGGATGTTGAGGACTCTTACCGAGCTGGCCACCTTGACT 969	
QY	961 TCGCTGTAAGCCGAGGCATAA 986	
Db	970 TGAATTAACGCCAGGCCATAA 995	
ORIGIN		
RESULT 7		
AR304631	AR304631 1 from patent US 654955.	
LOCUS	1000 bp mRNA	
DEFINITION	Sequence 1 from patent US 654955.	
ACCESSION	AR304631	
VERSION	AR304631.1 GI:31693815	
KEYWORDS	Unknown.	
SOURCE	ORGANISM	
REFERENCE	Unclassified.	
AUTHORS	Frisch,S.M.	
JOURNAL	Method of sensitizing tumor cells with adenovirus E1A	
FEATURES	PATENT: US 654955-A 1 08-APR-2003;	
source	Location/Qualifiers	
1. .1000	/organism="unknown"	
QY	/mol_type="mRNA"	
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Best Local Similarity	100.0%; Pred. No. 1e-263;	
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QY	1 ATGAGACATATATCTGCACGGAGTTACCGAAGAATGGCCGAGTCCTTG 60	
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QY	61 GACCAAGCTGATCGAGAGGTTACTGCTATACTTCCACCTCTAGCCATTGACCA 120	
Db	70 GACCAAGCTGATCGAGAGGTTACTGCTATACTTCCACCTCTAGCCATTGACCA 129	
QY	121 CTCACCCCTCAAGACTGATGTTAGCTGAGGAGCCGGGAGAATGCCACCTGACCG 180	
Db	130 CTCACCCCTCAAGACTGATGTTAGCTGAGGAGCCGGGAGAATGCCACCTGACCG 189	
QY	181 GCGGTTTCCGAGATTTCGCGACTCTGATGTTGGGGTGGAGGGATTGACTA 240	
Db	190 GCGGTTTCCGAGATTTCGCGACTCTGATGTTGGGGTGGAGGGATTGACTA 249	
QY	241 CTCACCTTTCGCGCGGCCCGCGTTCTGGAGGCCGCGCTCACCTTCGGAGGCCAG 300	
Db	250 CTCACCTTTCGCGCGGCCCGCGTTCTGGAGGCCGCGCTCACCTTCGGAGGCCAG 309	
QY	301 CAGCGGAGGAGAGCTGCGCTGAGGAGGTGAGGAGGGATGACTA 360	
Db	310 CAGCGGAGGAGAGCTGCGCTGAGGAGGTGAGGAGGGATGACTA 369	
QY	361 GATCTTACCTGCGAGGAGCTTCTGAGCTGAGGAGGGATGACTA 420	
Db	370 GATCTTACCTGCGAGGAGCTTCTGAGCTGAGGAGGGATGACTA 429	
QY	421 GAGTTGTTGTTAGATTGAGGACCCGGGACCGGTGAGGTGAGGAGGGATGACTA 480	
Db	430 GAGTTGTTGTTAGATTGAGGACCCGGGACCGGTGAGGTGAGGAGGGATGACTA 489	
QY	481 CGGAGGAATGGGGGACCCAGTGGCTGAGGAGGTGAGGAGGGATGACTA 540	
Db	490 CGGAGGAATGGGGGACCCAGTGGCTGAGGAGGTGAGGAGGGATGACTA 549	
QY	541 ATGTTGTCATACTGAAATATGGCACTGGGTTAGTGGACTTGGCTGCTTGGACT 600	
Db	550 ATGTTGTCATACTGAAATATGGCACTGGGTTAGTGGACTTGGCTGCTTGGACT 609	
QY	601 TGGTAAATTTTAAATTTCAGTTGTGTTAAAGATTGTTATGTTGATTGATT 660	

QY	610	TCGTTAATTTTTTAAATTTCAGTTTGTGTTAAAGAATTTGATTCGATT	669	Db
QY	661	TTTAAAGGTCCTGTCGACTGAGCTGAGCCGAGCACACGGCTGCAA	720	QY
Db	670	TTTAAAGGTCCTGTCGACTGAGCTGAGCCGAGCACACGGCTGCAA	729	Db
QY	721	GACCTACCCCGTCTCTAAATGGGCCCTACTCTGAGCGACATCACCTGTT	780	QY
Db	730	GACCTACCCCGTCTCTAAATGGGCCCTACTCTGAGCGACATCACCTGTT	789	Db
QY	781	CTAGGAAATGCAATGTTAGCGGATGCTGAGCTGAGCCGACATCACCTGTT	840	QY
Db	790	CTAGGAAATGCAATGTTAGCGGATGCTGAGCTGAGCCGACATCACCTGTT	849	Db
QY	841	AGATACACCGGTGCCCCCTGTCCTAAACCGATGCGGAGTTGGGC	900	QY
Db	850	AGATACACCGGTGCCCCCTGTCCTAAACCGATGCGGAGTTGGGC	909	Db
QY	901	GTGCGAGGTGCGATGATGGGACTTGCTAACGGCTGGCACCTTGGACT	960	QY
Db	910	GTGCGAGGTGCGATGATGGGACTTGCTAACGGCTGGCACCTTGGACT	969	Db
QY	961	TGAGGTGTAACGCCAGGCCATAA	986	QY
Db	970	TGAGGTGTAACGCCAGGCCATAA	995	Db
RESULT 8				
AR304632	AR304632	Sequence 3 from Patent: US 6544955.	1000 bp	mRNA
LOCUS	AR304632			linear
DEFINITION	AR304632			PAT 12-JUN-2003
ACCESSION	AR304632.1			
VERSION	GI:31693816			
KEYWORDS				
SOURCE	Unknown.			
ORGANISM	Unclassified.			
REFERENCE	1. (bases 1 to 1000)			
AUTHORS	Frisch, S.M.			
TITLE	Method of sensitizing tumor cells with adenovirus E1A			
JOURNAL	Patent: US 6544955-A 3 08-APR-2003;			
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Db	10	ATGACACATATATGGCCACGGAGGTGTTAACCGAAGAATGGCGCGCAGTCTTGT	69	Db
QY	61	GACCGCTGATGAGGAGGTCTGGTATGAGCTGAGCGCCCGCGAAGATCCGAAACGGAG	120	QY
Db	70	GACCGCTGATGAGGAGGTCTGGTATGAGCTGAGCGCCCGCGAAGATCCGAAACGGAG	129	Db
QY	121	CCTACGCTTACGAACTGTATGATTAGACGTGAGCGCCCGCGAAGATCCGAAACGGAG	180	QY
Db	130	CCTACGCTTACGAACTGTATGATTAGACGTGAGCGCCCGCGAAGATCCGAAACGGAG	189	Db
QY	181	GCGGTTTCGCGAGATTTCGCGACTGTGTTGCGGTGCAAGAGGATTACTTA	240	QY
Db	190	GCGGTTTCGCGAGATTTCGCGACTGTGTTGCGGTGCAAGAGGATTACTTA	249	Db
QY	241	CTCACTTCGCGCCAGCGCGCTTCCCGAGCGCCCTACCTTCGCGAGCGCGAG	300	QY
Db	250	CTCACTTCGCGCCAGCGCGCTTCCCGAGCGCCCTACCTTCGCGAGCGCGAG	309	Db
QY	301	CAGCGAGAGAGAGCTGGTCCGGTTCTAGCCAAACCTTACCGAGGTGATC	360	QY
RESULT 9				
AY147066	AY147066			
LOCUS	AY147066		1055 bp	DNA
DEFINITION	Human adenovirus type 5 E1A protein gene, complete cds.			linear
ACCESSION	AY147066			VRL 16-SEP-2002
VERSION	AY147066.1			
KEYWORDS				
SOURCE	Human adenovirus type 5			
ORGANISM	Human adenovirus type 5			
REFERENCE	1. (bases 1 to 1055)			
AUTHORS	Li, L., Wang, Z., Su, M., Yu, W. and Ma, Y.			
TITLE	Direct Submission			
JOURNAL	Submitted (03-SEP-2002) Institute of Orthopaedics, Xidong Hospital, Chang'an West Road, Xi'an, Shaanxi 710032, P.R. China			
FEATURES	Location/Qualifiers			
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Db	1182	TGGTAAATTTTTAAATTTCAGTTGAGATTGATGGATT	1241	Db	822	CTCACTTTCGCGGGGCCCCGTCGGAGCCCTCACCTTCCGGAGCCAG	881
Qy	661	TTTAAAGGTCCTGTCGAACCTGACCTGAGCCAGGCCAGACGGACCTGCAA	720	Qy	301	CAGCGGAGAGAGACCTTGGTCCGTTTATGCCAACCTGTCGAGTC	360
Db	1242	TTTAAAGGTCCTGTCGAACCTGACCTGAGCCAGGCCAGACGGACCTGCAA	1301	Db	882	CAGCGGAGAGAGACCTTGGTCCGTTTATGCCAACCTGTCGAGTC	941
Qy	721	GACCTACCGGCTCTAAATGGCCCTGCTACCTGAGCCAGGCCAGACGGACCTGCAA	780	Qy	361	GATCTTACCTGCCAGAGGCTGGTTACCCAGTGAAGAGGAGTAC	420
Db	1302	GACCTACCGGCTCTAAATGGCCCTGCTACCTGAGCCAGGCCAGACGGACCTGCAA	1361	Db	942	GATCTTACCTGCCAGAGGCTGGTTACCCAGTGAAGAGGAGTAC	1101
Qy	781	CTAGGAAATCAAATGTTAGTACGGTAGCTGACTCCGCTCTAACACCTCTG	840	Qy	421	GAGTTGTTGTTAGTGGAGACCCGGCACGGTTCGAGCTTGTCAT	480
Db	1362	CTAGGAAATCAAATGTTAGTACGGTAGCTGACTCCGCTCTAACACCTCTG	1421	Db	1002	GAGTTGTTGTTAGTGTGAGCACCCGGCACGGTTCGAGCTTGTCAT	1061
Qy	841	AGATACACCGGCTGCTAACCTGAGCCCTTAACACACTGCGGTGAGAGTGTGAGC	900	Qy	481	GGAGGAATACGGGGACGATATTGTTGCTGCTATGAGGACCTGTC	540
Db	1422	AGATACACCGGCTGCTAACCTGAGCCCTTAACACACTGCGGTGAGAGTGTGAGC	1481	Db	1062	GGAGGAATACGGGGACGATATTGTTGCTGCTATGAGGACCTGTC	1121
Qy	901	GTCGCCAGGCTGCTAACCTGAGCCCTTAACACACTGCGGTGAGAGTGTGAGC	960	Qy	541	ATGTTGTTCTAAGTAACTGAAATTATGGCTGGGTGATAGAGTGTGTTGG	600
Db	1482	GTCGCCAGGCTGCTAACCTGAGCCCTTAACACACTGCGGTGAGAGTGTGAGC	1541	Db	1122	ATGTTGTTCTAAGTAACTGAAATTATGGCTGGGTGATAGAGTGTGTTGG	1181
RESULT 11				Db	601	TGGTAAATTTTTAATTTCAGTTGTTGTTAAGAATTGTTGATGATT	660
LOCUS	AX838364	Sequence 3 from Patent WO20068627.	1802 bp	Db	721	GACCTACCGGCTCTAAATGGCCCTGCTATCTGAGACGCCAGGCCAGACGGACCTGCAA	720
DEFINITION			DNA	Db	1302	GACCTACCGGCTCTAAATGGCCCTGCTATCTGAGACGCCAGGCCAGACGGACCTGCAA	1361
ACCESSION	AX838364		linear	Db	781	CTAGGAAATCAAATGTTAGTACGGTAGCTGACTCCGCTCTAACACCTCTG	840
VERSION	AX838364.1	GI:39922045	PAT 15-DEC-2003	Db	1362	CTAGGAAATCAAATGTTAGTACGGTAGCTGACTCCGCTCTAACACCTCTG	1421
KEYWORDS				Qy	841	AGATACACCGGCTGCTAACCTGAGCCCTTAACACACTGCGGTGAGAGTGTGAGC	900
SOURCE				Db	1422	AGATACACCGGCTGCTAACCTGAGCCCTTAACACACTGCGGTGAGAGTGTGAGC	1481
ORGANISM				Qy	901	GTCGCCAGGCTGCTAACCTGAGCCCTTAACACACTGCGGTGAGAGTGTGAGC	960
REFERENCE				Db	1482	GTCGCCAGGCTGCTAACCTGAGCCCTTAACACACTGCGGTGAGAGTGTGAGC	1541
AUTHORS				Qy	961	TGAGCTGAAACGCCAGGCCATTA	986
TITLE				Db	1542	TGAGCTGAAACGCCAGGCCATTA	1567
JOURNAL							
FEATURES	source						
ORIGIN							
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Db	582	ATGAGACAAATACGCCCCGGGGTGTATACGAAAGATGCCGCCAGCTTGTG	641	LOCUS	AX70195	AX70195	DNA
Qy	61	GACCGCTGATCGAAAGGACTGCTGATATCTCCACCTCTGAGCTTGTG	120	DEFINITION	Sequence 6 from Patent WO03035883.		linear
Db	642	GACCGCTGATCGAAAGGACTGCTGATATCTCCACCTCTGAGCTTGTG	701	VERSION	AX70195.1	GI:32437735	PAT 02-JUL-2003
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ORGANISM				Qy			
Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus				Db			
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Db	582	ATGAGACAAATACGCCCCGGGGTGTATACGAAAGATGCCGCCAGCTTGTG	641	LOCUS	AX70195	AX70195	DNA
Qy	61	GACCGCTGATCGAAAGGACTGCTGATATCTCCACCTCTGAGCTTGTG	120	DEFINITION	Sequence 6 from Patent WO03035883.		linear
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SOURCE				Db			
ORGANISM				Qy			
Human adenovirus type 5				Db			
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REFERENCE				Db			
AUTHORS				Qy			
TITLE				Db			
JOURNAL				Qy			
FEATURES	source			Db			
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Qy	61	GACCGCTGATCGAAAGGACTGCTGATATCTCCACCTCTGAGCTTGTG	120	DEFINITION	Sequence 6 from Patent WO03035883.		linear
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TITLE				Db			
JOURNAL				Qy			
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Qy	61	GACCGCTGATCGAAAGGACTGCTGATATCTCCACCTCTGAGCTTGTG	120	DEFINITION	Sequence 6 from Patent WO03035883.		linear
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Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus				Qy			
REFERENCE				Db			
AUTHORS				Qy			
TITLE				Db			
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FEATURES	source			Db			
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Human adenovirus type 5				Db			
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AUTHORS				Qy			
TITLE				Db			
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Human adenovirus type 5				Db			
Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus				Qy			
REFERENCE				Db			
AUTHORS				Qy			
TITLE				Db			
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Qy	61	GACCGCTGATCGAAAGGACTGCTGATATCTCCACCTCTGAGCTTGTG	120	DEFINITION	Sequence 6 from Patent WO03035883.		linear
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Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus				Qy			
REFERENCE				Db			
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FEATURES	source			Db			
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Qy	1	ATGAGACAAATACGCCCCGGGGTGTATACGAAAGATGCCGCCAGCTTGTG	60	Qy	170195	AX70195	3408 bp
Db	582	ATGAGACAAATACGCCCCGGGGTGTATACGAAAGATGCCGCCAGCTTGTG	641	LOCUS	AX70195	AX70195	DNA
Qy	61	GACCGCTGATCGAAAGGACTGCTGATATCTCCACCTCTGAGCTTGTG	120	DEFINITION	Sequence 6 from Patent WO03035883.		linear
Db	642	GACCGCTGATCGAAAGGACTGCTGATATCTCCACCTCTGAGCTTGTG	701	VERSION	AX70195.1	GI:32437735	PAT 02-JUL-2003
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Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus				Qy			
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Qy	61	GACCGCTGATCGAAAGGACTGCTGATATCTCCACCTCTGAGCTTGTG	120	DEFINITION	Sequence 6 from Patent WO03035883.		linear
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SOURCE				Db			
ORGANISM				Qy			
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Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus				Qy			

ORIGIN

Query Match 100.0%; Score 986; DB 6; Length 3408;  
Best Local Similarity 100.0%; Pred. No. 1. 3e-253; Mismatches 0; Indels 0; Gaps 0;  
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Db 104 GACCAAGCTGATCGAAGAGGAGCTGCTGATTCACCGAAGAAATGCCGCCAGCTTTC 163

QY 121 OCTACCTTCAGAACGCTGATGATTAGACCGAGCCCGCCCGAAGATCCACAGGAG 180  
Db 164 OCTACCTTCAGAACGCTGATGATTAGACCGAGCCCGCCCGAAGATCCACAGGAG 223

QY 181 CGGGTTTGCAGATTTCGGACTCTGTATGTTGCGGCGAGAAAGATTGACTA 240  
Db 224 CGGGTTTGCAGATTTCGGACTCTGTATGTTGCGGCGAGAAAGATTGACTA 283

QY 241 CTCACCTTCGCCGGCGCGCTTCGGCGCCCTCAGCGCCGAGCGCGAG 300  
Db 284 CTCACCTTCGCCGGCGCGCGCTTCGGCGCCCTCAGCGCCGAGCGCGAG 343

QY 301 CAGCCGGAGCAGAGAGCCTTGGCTCGGTTCTATGCCAAGAACCTTGACCGAGGATGTC 360  
Db 344 CAGCCGGAGCAGAGAGCCTTGGCTCGGTTCTATGCCAAGAACCTTGACCGAGGATGTC 403

QY 361 GATCTAACCTCCACGAGGCTGCTTCACCCAGCGAGCTGAGAGGAGGTGAG 420  
Db 404 GATCTAACCTCCACGAGGCTGCTTCACCCAGCGAGCTGAGAGGAGGTGAG 463

QY 421 GAGTTGTTGATGTTGAGACCCCGGACGGTTCAGCTTCGATTTACCTATAC 480  
Db 464 GAGTTGTTGATGTTGAGACCCCGGACGGTTCAGCTTCGATTTACCTATAC 523

QY 481 CGGAGGATACCGGGACCCAGATATATGTTGCTGTTGCTATGAGGACCTGTGC 540  
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QY 541 ATGTTGCTCTAGTGTAGTGTAGAATTATGGCAGTGGGTGATAGTGTTGGTGTG 600  
Db 584 ATGTTGCTCTAGTGTAGTGTAGAATTATGGCAGTGGGTGATAGTGTTGGTGTG 643

QY 601 TGTGTAATTTTTAAATTTCAGTTGTTGGTTAAAGAAATTGTGTTGATT 660  
Db 644 TGTGTAATTTTTAAATTTCAGTTGTTGGTTAAAGAAATTGTGTTGATT 703

QY 661 TTTAAAGGCTCTGCTGAACTGAGCTGAGCCGAGACCGAGCCCTGCAA 720  
Db 704 TTTAAAGGCTCTGCTGAACTGAGCTGAGCCGAGACCGAGCCCTGCAA 763

QY 721 GACCTACCGCGCTCTAAATGGCGCTGCTATCCGAGGCCGAGCATACCTGT 780  
Db 764 GACCTACCGCGCTCTAAATGGCGCTGCTATCCGAGGCCGAGCATACCTGT 823

QY 781 CTAGAGATGCAATAGTAGTACCGTAGCTGACTCCGGCTCTAACACCTCTG 840

RESULT 13

AR310582 AR310582 Sequence 18 from patent US 6558948. 7090 bp DNA linear PAT 12-JUN-2003

LOCUS AR310582 DEFINITION Sequence 18 from patent US 6558948.

ACCESSION AR310582 VERSION AR310582.1

VERSION AR310582.1

Db 901 GTGCCGAGCTGGAATATCGAGCTGCTTAAGAGCTGGGAACTTGGACT 960

Db 944 GTGCCGAGCTGGAATATCGAGCTGCTTAAGAGCTGGGAACTTGGACT 1003

QY 961 TGACGTGAAACGCCCGCCATAA 986

Db 104 TGACGTGAAACGCCCGCCATAA 1029

ORIGIN

Query Match 100.0%; Score 986; DB 6; Length 7090;  
Best Local Similarity 100.0%; Pred. No. 1. 5e-263; Mismatches 0; Indels 0; Gaps 0;  
Matches 986; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGACATATATCTGCCAGGAGCTGCTGATTCACCGAAGAAATGCCGCCAGCTTTC 60  
Db 288 ATGAGACATATATCTGCCAGGAGCTGCTGATTCACCGAAGAAATGCCGCCAGCTTTC 2867

QY 61 GACCAAGCTGATCGAAGAGGAGCTGCTGATTCACCGAAGAAATGCCGCCAGCTTTC 120  
Db 268 GACCAAGCTGATCGAAGAGGAGCTGCTGATTCACCGAAGAAATGCCGCCAGCTTTC 2927

QY 121 CTCACCTTCAGAACGCTGATGTTGAGCTGAGCTGGCGCCGAGATCCAAACGGAG 180  
Db 2928 CTCACCTTCAGAACGCTGATGTTGAGCTGAGCTGGCGCCGAGATCCAAACGGAG 2987

QY 181 CGGGTTTGCAGATTTCGGACTCTGTTGAGATGTTGGCGTGGAGAGGAGTTACTA 240  
Db 2988 GGGTTTGCAGATTTCGGACTCTGTTGAGATGTTGGCGTGGAGAGGAGTTACTA 3047

QY 241 CTCACCTTCGGCGCCGGCGGTTCTCCGAGGCCGCTACCTTCCGGCAGGCCG 300  
Db 3048 CTCACCTTCGGCGCCGGCGGTTCTCCGAGGCCGCTACCTTCCGGCAGGCCG 3107

QY 301 CAGCCGGAGGAGGCCCTGGCGCGTTCTATGCCAACCTTGACCGGAGCTGTC 360  
Db 3108 CAGCCGGAGGAGGCCCTGGCGCGTTCTATGCCAACCTTGACCGGAGCTGTC 3167

QY 361 GATCTAACCTCCACGAGCTGCTGATGTTGGCTGAGGAGGTGAG 420  
Db 3168 GATCTAACCTCCACGAGCTGCTGATGTTGGCTGAGGAGGTGAG 3227

QY 421 GAGTTGTTGATGTTGAGACCCCGGAGCTGCTGAGGAGGTGAG 480  
Db 3228 GAGTTGTTGATGTTGAGACCCCGGAGCTGCTGAGGAGGTGAG 3287

Query 481 CGGAGGATACGGGGACCCAGATATTATGTTCTTGCATATGAGGACCTGTGGC 540  
 Db 3288 CGAGGATACGGGGACCCAGATATTATGTTCTTGCATATGAGGACCTGTGGC 3347  
 Query 541 ATGTTTCTCTAGTAGTGAATATGCGCAGCTGGTAGAGCTGGGGTTGGG 600  
 Db 3348 ATGTTTCTCTAGTAGTGAATATGCGCAGCTGGTAGAGCTGGGGTTGGG 3407  
 Query 601 TCGTAATTTTTAAATTACAGTTGGTTAAGAATTGGTTATGTTGATT 660  
 Db 3408 TCGTAATTTTTAAATTACAGTTGGTTAAGAATTGGTTATGTTGATT 3467  
 Query 661 TTAAAGGCTCTGCTGAAATTAGGCTTAAAGGCTCTGAA 720  
 Db 3468 TTAAAGGCTCTGCTGAAATTAGGCTTAAAGGCTCTGAA 3527  
 Query 721 GACCTACCGCGCTCTAAAGGCGCCCTGATCTTGAGGAGGTGT 780  
 Db 3528 GACCTACCGCGCTCTAAAGGCGCCCTGATCTTGAGGAGGTGT 3587  
 Query 781 CTAGAGATGCTATAGTAGCTAGGAGATGCTGACCTCTAACACCTCTG 840  
 Db 3588 CTAGAGATGCTATAGTAGCTAGGAGATGCTGACCTCTAACACCTCTG 3647  
 Query 841 AGATAACCCGGTGTCCCGCTGTGCCCTTAACCACTGGCTGAGTTGGGGC 900  
 Db 3648 AGATAACCCGGTGTCCCGCTGTGCCCTTAACCACTGGCTGAGTTGGGGC 3707  
 Query 901 GTGCCAGGCTCTGGAGTGTACGAGCTGCTAACACCCCTG 960  
 Db 3708 GTGCCAGGCTCTGGAGTGTACGAGCTGCTAACACCCCTG 3767  
 Query 961 TCACTGTAAGGCCAGGCTAA 986  
 Db 3768 TCACTGTAAGGCCAGGCTAA 3793

RESULT 14

AX150263 LOCUS AX150263 7090 bp DNA linear PAT 08-JUN-2001  
 DEFINITION Sequence 18 from Patent WO0136615.  
 ACCESSION AX150263.1 GI:14348283  
 VERSION 3  
 KEYWORDS synthetic construct  
 SOURCE  
 ORGANISM  
 REFERENCE  
 1 AUTHORS Kochanek, S. and Schleder, G.  
 TITLE Permanent amniocyte cell line, the production thereof and its use  
 JOURNAL Patent: WO 0136615-A 18 25-MAY-2001;  
 Kochanek, Stefan (DE)  
 FEATURES Source  
 1. .7090  
 /organism="synthetic construct"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:32630"  
 /note="Plasmid STK146"  
 ORIGIN

Query Match 100.0%; Score 986; DB 6; Length 7090;  
 Best Local Similarity 100.0%; Pred. No. 1.5e-263; Mismatches 0; Indels 0; Gaps 0;  
 Matches 986; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 1 ATGAGCTTATTCGACAGGCTTATCCGAGAAGATGGCGCGCTTTC 60  
 Db 2808 ATGAGCTTATTCGACAGGCTTATCCGAGAAGATGGCGCGCTTTC 2867  
 Query 61 GACCGAGCTGATGAGAGGTATGGCTGATAMCTGACCTCTAGCCATTGACCA 120  
 Db 2868 GACCGAGCTGATGAGAGGTATGGCTGATAMCTGACCTCTAGCCATTGACCA 2927

RESULT 15

BD268237 LOCUS BD268237 7607 bp DNA linear PAT 17-JUL-2003  
 DEFINITION Adenovirus vector, packaging cell line, composition and method for  
 ACCESSION BD268237  
 VERSION BD268237.1 GI:33078005  
 KEYWORDS  
 SOURCE synthetic construct  
 ORGANISM  
 REFERENCE 1 (bases 1 to 7607)

Query 121 CCTACCCCTACGAACTGTATGATTAGCTGTCAGGCCCCGAGATCCCAACGAGGG 180  
 Db 2928 CCTACCCCTACGAACTGTATGATTAGCTGTCAGGCCCCGAGATCCCAACGAGGG 2987  
 Query 181 GCGGTTCCAGATTTTCGACTCTGTAATGTTGGGGTGCAGGAAGGGATGACTA 240  
 Db 2988 GCGGTTCCAGATTTTCGACTCTGTAATGTTGGGGTGCAGGAAGGGATGACTA 3047  
 Query 241 CTCACTTTCGCGCGCGCCGCTCTCGGACCGCCCTACCTTCCGGCGCC 300  
 Db 3108 CAGCGGCGAGAGCTGGCTGGGCGGTTATGCCCACCTGTACCGAGGTGATC 3167  
 Query 3048 CTCACTTTCGCGCGCGCCGCTCTCGGACCGCCCTACCTTCCGGCGCC 3107  
 Query 361 GATCTTACCTGCCACGAGCTGGCTTCACCCAGTGAAGAGGATGAAAGGGTGA 420  
 Db 3168 GATCTTACCTGCCACGAGCTGGCTTCACCCAGTGAAGAGGATGAAAGGGTGA 3227  
 Query 421 GAGTTGTGTTAGTTATGGAGCACCCTGGCTTAACACCCCTCTG 840  
 Db 3288 GAGTTGTGTTAGTTATGGAGCACCCTGGCTTAACACCCCTCTG 3287  
 Query 541 ATGTTGTCTACAGTAAGGAAATTGGGAGCTGGGTAGAGTGGGGTTGGG 540  
 Db 3348 ATGTTGTCTACAGTAAGGAAATTGGGAGCTGGGTAGAGTGGGGTTGGG 3407  
 Query 601 TGGTAATTTTTAAATTTCAGTTTGAGGTTAAGAATTGGGAGCTGGGTAGATGTTGGGTTGGG 660  
 Db 3408 TGGTAATTTTTAAATTTCAGTTTGAGGTTAAGAATTGGGAGCTGGGTAGATGTTGGGTTGGG 3467  
 Query 661 TTAAAGGCTCTGCTGAACTGACCTGACGCCAGCCAGGAGGTGCA 720  
 Db 3468 TTAAAGGCTCTGCTGAACTGACCTGACGCCAGCCAGGAGGTGCA 3527  
 Query 721 GACCTACCCGGCTCTAAATGGCGCTGCTATCTGAGACGCCAGATCACCTGT 780  
 Db 3528 GACCTACCCGGCTCTAAATGGCGCTGCTATCTGAGACGCCAGATCACCTGT 3587  
 Query 781 CTAGAGATGCTATAGTAGCTAGGAGATGCTGACCTCTAACACCTCTG 840  
 Db 3588 CTAGAGATGCTATAGTAGCTAGGAGATGCTGACCTCTAACACCTCTG 3647  
 Query 841 AGATCACCGGTATCCGCTGCGCCCTTAACCACTGGCTGAGTTGGGGC 900  
 Db 3648 AGATCACCGGTATCCGCTGCGCCCTTAACCACTGGCTGAGTTGGGGC 3707  
 Query 901 GTGCCAGGCTCTGGAGTGTACGAGCTGCTAACACCCCTG 960  
 Db 3708 GTGCCAGGCTCTGGAGTGTACGAGCTGCTAACACCCCTG 3767  
 Query 961 TCACTGTAAGGCCAGGCTAA 986  
 Db 3768 TCACTGTAAGGCCAGGCTAA 3793

AUTHORS	Nemerow, G.R., Seggern, D.J.V., Hallenbeck, P.L., Stevenson, S.C. and Skripchenko, Y.	Db
TITLE	Adenovirus vector, packaging cell line, composition and method for production and use	Qy
JOURNAL	PATENT: JP 2002534130-A 41 15-OCT-2002; NOVARTIS AG, THE SCRIPPS RESEARCH INSTITUTE	Db
COMMENT	Artificial Sequence	Qy
PN	JP 2002534130-A/41	Db
PD	15-OCT-2002	Db
PF	14-JAN-2000 JP 2000593765	Db
PR	14-JAN-1999 US 60/115220	Db
PI	GLEN ROBERT NEMEROW, DANIEL J VON SEGBERN, PAUL L HALLENBECK, PI	Qy
SUSAN C STEVENSON, YELENA SKRIPCHENKO		Db
PC	C12N15/09, A61K35/76, A61K48/00, A61P35/00, A61P43/00, 00,	Qy
PC	C12N5/10, C12Q1/68, G01N33/53, G01N33/56, C12N5/00, CC	Db
PC	Description of Artificial Sequence: Plasmid d	Qy
FH	Key	Db
FT	Location/Qualifiers	Qy
	1. 7607 /organism='synthetic construct'	Db
FT	Location/Qualifiers	Qy
	1. 7607 /organism='Artificial Sequence'.	Db
FEATURES	/organism="synthetic construct"	Qy
source	/mol_type="genomic DNA"	Db
	/db_xref="taxon:32630"	1962
ORIGIN		
Query Match	100.0%	Score 986; DB 6; Length 7607;
Best Local Similarity	100.0%	Pred. No. 1. 5e-263; Mismatches 0; Indels 0; Gaps 0;
Macchao	986	Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1	ATGAGACATATATCTGCACGGAGGTATTACCGAAGAAATGGCCGCACTCTTTG 60
Db	977	ATGAGACATATATCTGCACGGAGGTATTACCGAAGAAATGGCCGCACTCTTTG 1036
Qy	61	GACCACTGATCGAGGTACTGGCTATAATCTTCCACCTCTTAGCAATTGACCA 120
Db	1037	GACCACTGATCGAGGTACTGGCTATAATCTTCCACCTCTTAGCAATTGACCA 1096
Qy	121	CCTACCCCTCAAGAACCTATGATTAGCTAGGTAACGCCAGATCCAAACGGAGG 180
Db	1097	CTTACCCCTCAAGAACCTATGATTAGCTAGGTAACGCCAGATCCAAACGGAGG 1156
Qy	181	CGGTTTTCGCGAGATTTCGCCACTCTGTAATGTTGGGTGAGGAAGGGATGACTTA 240
Db	1157	GGGTTTTCGCGAGATTTCGCCACTCTGTAATGTTGGGTGAGGAAGGGATGACTTA 1216
Qy	241	CTCACCTTCGCGGCCGCCGCTTCTCGAGGCCCTCACCTTCCGGGACCCGNG 300
Db	1217	CTCACCTTCGCGGCCGCCGCTTCTCGAGGCCCTCACCTTCCGGGACCCGNG 1276
Qy	301	CGAGGGAGAGAGAGAGGCTTGGCTGGCTTCTPATGCCAACCTTGACCGAGGTATC 360
Db	1277	CAGCCGAGAGAGAGGCTTGGCTGGCTTCTPATGCCAACCTTGACCGAGGTATC 1336
Qy	361	SATCTTACCTGCCAACGGGTGGCTTCCACCCAGTGAAGACGGGCAAGGGTNG 420
Db	1337	SATCTTACCTGCCAACGGGTGGCTTCCACCCAGTGAAGACGGGCAAGGGTNG 1396
Qy	421	GAGTTGTGTGAGATTATGTTGAGCAACCGGGAACTGTTGCTTGTCAATTAC 480
Db	1397	GAGTTGTGTGAGATTATGTTGAGCAACCGGGAACTGTTGCTTGTCAATTAC 1456
Qy	481	CGGAGGAATACGGGAACTGGAAATTATGGCAACTGGTGTAGCTGGTGTGGC 540
Db	1457	CGGAGGAATACGGGAACTGGAAATTATGGCAACTGGTGTAGCTGGTGTGGC 1516
Qy	541	ATGTTGTCTACGTACTGAAATTATGGCAACTGGTGTAGCTGGTGTGGC 600
Db	1517	ATGTTGTCTACGTACTGAAATTATGGCAACTGGTGTAGCTGGTGTGGC 1576
Qy	601	TGTTAATTTTTAAATTACAGTTGTTAAAGATTTCATTGATT 660